

(FILE 'HOME' ENTERED AT 13:25:42 ON 17 AUG 2005)

FILE 'REGISTRY' ENTERED AT 13:26:13 ON 17 AUG 2005

L1 STRUCTURE UPLOADED
L2 637 S MALEIC ANHYDRIDE AND 1/NC
L3 8404 S MALEIC ANHYDRIDE
L4 330 S L1 FULL
L5 23955 S 108-31-6/CRN
L6 23 S L4 AND L5
L7 STRUCTURE UPLOADED
L8 1015 S L7 FULL
L9 STRUCTURE UPLOADED
L10 48091 S L9 FULL
L11 2 S L4 AND L5 AND L8 AND L10

FILE 'CAPLUS' ENTERED AT 13:41:38 ON 17 AUG 2005

L12 1 S L11

FILE 'REGISTRY' ENTERED AT 13:44:58 ON 17 AUG 2005

L13 STRUCTURE UPLOADED
L14 5055 S L13 FULL
L15 2 S L4 AND L5 AND L14 AND L10

FILE 'CAPLUS' ENTERED AT 13:46:04 ON 17 AUG 2005

L16 1 S L15
L17 STRUCTURE UPLOADED

FILE 'REGISTRY' ENTERED AT 13:47:24 ON 17 AUG 2005

L18 50 S L17
L19 STRUCTURE UPLOADED
L20 174 S L19 FULL
L21 3123 S 585-07-9/CRN
L22 2 S L4 AND L5 AND L21
L23 STRUCTURE UPLOADED
L24 5055 S L23 FULL
L25 STRUCTURE UPLOADED
L26 174 S L25 FULL
L27 0 S L4 AND L5 AND L21 AND L26
L28 30136 S 868-77-9/CRN
L29 2 S L4 AND L5 AND L21 AND L28

FILE 'CAPLUS' ENTERED AT 14:00:51 ON 17 AUG 2005

=> s l29

L30 1 L29

=> d bib ab hitstr

L30 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2005:98956 CAPLUS
DN 142:207614
TI Photoresist polymer and photoresist composition containing the same
IN Lee, Geun Su; Bok, Cheol Kyu; Moon, Seung Chan; Shin, Ki Soo; Kim, Jae
Hyun; Kim, Jung Woo; Lee, Sang Hyang; Kang, Jae Hyun
PA S. Korea
SO U.S. Pat. Appl. Publ., 17 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI US 2005026070 A1 20050203 US 2003-719905 20031121
PRAI KR 2003-52337 A 20030729

AB Photoresist polymers and photoresist compns. are disclosed. A photoresist polymer is represented by I (X1-4 = CH2, CH2CH2, S; R1,2 = H, CH3, CF3; R3 = C1-20 alkyl, etc.; R4 = C1-20 hydroxyalkyl, etc.; R5 = H, C1-20 hydroxyalkyl, etc.; m = 0-2; and n = 0, 1). The photoresist compns. have excellent etching resistance, thermal resistance and adhesive property, and high affinity to an developing solution, thereby improving LER (line edge roughness).

IT **836623-60-0P 836623-61-1P**

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(photoresist polymer for photoresist composition)

RN 836623-60-0 CAPLUS

CN 2-Propenoic acid, 2-methyl-, 1,1-dimethylethyl ester, polymer with α,α -bis(trifluoromethyl)bicyclo[2.2.1]hept-5-ene-2-ethanol, 2,5-furandione and 2-hydroxyethyl 2-methyl-2-propenoate (9CI) (CA INDEX NAME)

Interference Search
US pre-grant Pub.
8-17-05

WEST Search History

DATE: Wednesday, August 17, 2005

Hide?	<u>Set</u> <u>Name</u>	<u>Query</u>	<u>Hit</u> <u>Count</u>
		<i>DB=PGPB; PLUR=YES; OP=ADJ</i>	
* <input type="checkbox"/>	L7	(norbornene.clm. or norbornyl.clm.) and (maleic anhydride).clm. and trifluoromethyl.clm.	5
		<i>DB=PGPB,USPT; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L6	L5 and l3 and l2	20
<input type="checkbox"/>	L5	526/271.ccls. or 526/242.ccls. or 430/907.ccls.	1682
<input type="checkbox"/>	L4	l1 and l2 and l3	72
<input type="checkbox"/>	L3	maleic anhydride	64768
<input type="checkbox"/>	L2	(norbornene or norbornyl) with trifluoromethyl	354
<input type="checkbox"/>	L1	430/270.1.ccls. or 430/326.ccls.	5805

END OF SEARCH HISTORY

Inventor Name SEARCH: Geun Su Lee, 8-17-05, REF

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	lee-g-s.in.	US-PGPUB; USPAT	OR	ON	2005/08/17 21:03
L2	1331	lee-g\$.in.	US-PGPUB; USPAT	OR	ON	2005/08/17 21:05
L3	1221	geun.in.	US-PGPUB; USPAT	OR	ON	2005/08/17 21:05
L4	182	2 and 3	US-PGPUB; USPAT	OR	ON	2005/08/17 21:04
L5	96583	photoresist	US-PGPUB; USPAT	OR	ON	2005/08/17 21:05
L6	124	4 and 5	US-PGPUB; USPAT	OR	ON	2005/08/17 21:04
L7	16516	norbornene	US-PGPUB; USPAT	OR	ON	2005/08/17 21:06
L8	59	6 and 7	US-PGPUB; USPAT	OR	ON	2005/08/17 21:04
L9	243401	maleic anhydride	US-PGPUB; USPAT	OR	ON	2005/08/17 21:06
L10	49	8 and 9	US-PGPUB; USPAT	OR	ON	2005/08/17 21:05
L11	911	lee-g\$.in.	USPAT	OR	ON	2005/08/17 21:05
L12	578	geun.in.	USPAT	OR	ON	2005/08/17 21:05
L13	68001	photoresist	USPAT	OR	ON	2005/08/17 21:05
L14	189677	maleic anhydride	USPAT	OR	ON	2005/08/17 21:06
L15	11978	norbornene	USPAT	OR	ON	2005/08/17 21:06
L16	31	11 and 12 and 13 and 14 and 15	USPAT	OR	ON	2005/08/17 21:06

10/719,905

Search History

USPT, PGPB

August 17, 2005

RPA

WEST Search History

Hide Items

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DATE: Wednesday, August 17, 2005

Hide? Set Name Query

Hit Count

DB=PGPB,USPT; PLUR=YES; OP=ADJ

<input type="checkbox"/>	L6	L5 and l3 and l2	20
<input type="checkbox"/>	L5	526/271.ccls. or 526/242.ccls. or 430/907.ccls.	1682
<input type="checkbox"/>	L4	l1 and l2 and l3	72
<input type="checkbox"/>	<u>L3</u>	maleic anhydride	64768
<input type="checkbox"/>	<u>L2</u>	(norbornene or norbornyl) with trifluoromethyl	354
<input type="checkbox"/>	L1	430/270.1.ccls. or 430/326.ccls.	5805

END OF SEARCH HISTORY

l5 430/907 ✓

l1 430/270.1 ✓

l1 430/326 ✓

l5 526/271 MA. Any

l5 526/242 F (P)

All w/ l2 + l3

+ l5 = 20 hits

+ l1 = 72 hits

10/719,905, 8/17/05, DB ↓, R9A

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	lee-g-s.in.	US-PGPUB; USPAT	OR	ON	2005/08/17 21:03
L2	1331	lee-g\$.in.	US-PGPUB; USPAT	OR	ON	2005/08/17 21:05
L3	1221	geun.in.	US-PGPUB; USPAT	OR	ON	2005/08/17 21:05
L4	✓182	2 and 3	US-PGPUB; USPAT	OR	ON	2005/08/17 21:04
L5	✓96583	photoresist	US-PGPUB; USPAT	OR	ON	2005/08/17 21:05
L6	✓124	4 and 5	US-PGPUB; USPAT	OR	ON	2005/08/17 21:04
(L7)	✓16516	<u>norbornene</u>	US-PGPUB; USPAT	OR	ON	2005/08/17 21:06
L8	✓59	6 and 7	US-PGPUB; USPAT	OR	ON	2005/08/17 21:04
(L9)	243401	<u>maleic anhydride</u>	US-PGPUB; USPAT	OR	ON	2005/08/17 21:06
L10	49	8 and 9	US-PGPUB; USPAT	OR	ON	2005/08/17 21:05
L11	911	lee-g\$.in.	USPAT	OR	ON	2005/08/17 21:05
L12	578	geun.in.	USPAT	OR	ON	2005/08/17 21:05
L13	68001	photoresist	USPAT	OR	ON	2005/08/17 21:05
L14	189677	maleic anhydride	USPAT	OR	ON	2005/08/17 21:06
L15	11978	norbornene	USPAT	OR	ON	2005/08/17 21:06
L16	31	11 and 12 and 13 and 14 and 15	USPAT	OR	ON	2005/08/17 21:09
L17	784	526/281.ccls.	USPAT	OR	ON	2005/08/17 21:09
(L18)	845	<u>526/281.ccls.</u>	<u>US-PGPUB; USPAT</u>	OR	ON	2005/08/17 21:10
L19	31	18 and 7 and 8	US-PGPUB; USPAT	OR	ON	2005/08/17 21:12
(L20)	71948	<u>trifluoromethyl</u>	US-PGPUB; USPAT	OR	ON	2005/08/17 21:10
L21	0	19 and 20	US-PGPUB; USPAT	OR	ON	2005/08/17 21:10
(L22)	(354)	<u>(norbornene or norbornyl) with trifluoromethyl</u>	US-PGPUB; USPAT	OR	ON	2005/08/17 21:12
(L23)	23	<u>18 and 22</u>	US-PGPUB; USPAT	OR	ON	2005/08/17 21:22
(L24)	5805	<u>430/270.1.ccls. or 430/326.ccls.</u>	US-PGPUB; USPAT	OR	ON	2005/08/17 21:23

L25	409	24 and 7 and 9 and 20	US-PGPUB; USPAT	OR	ON	2005/08/17 21:25
L26	63	24 and 7 and 9 and 20 and 22	US-PGPUB; USPAT	OR	ON	2005/08/17 21:25